

**April 2020 Version**

The following "Sewer Plan General Notes" shall be included on all private and public land development projects that involve new subdivisions and/or public improvements to Town of Wickenburg sewer utilities and facilities.

**TOWN OF WICKENBURG SEWER PLAN GENERAL NOTES**

1. ALL WORK REQUIRED TO COMPLETE THE CONSTRUCTION COVERED BY THE CONTRACT DOCUMENTS SHALL BE IN ACCORDANCE WITH THE 2018 MAG (MARICOPA ASSOCIATION OF GOVERNMENTS) STANDARD SPECIFICATIONS AND DETAILS AND MOST CURRENT TOWN OF WICKENBURG SUPPLEMENTS THEREOF UNLESS SPECIFIED OTHERWISE IN THESE DRAWINGS OR ELSEWHERE IN THE CONTRACT DOCUMENTS.
2. ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY (ADEQ) AND MARICOPA COUNTY REQUIREMENTS SHALL BE COMPLIED WITH.
3. ALL FRAMES, COVERS, VALVE BOXES, AND MANHOLES SHALL BE ADJUSTED TO FINISHED GRADE PER MAG SPECIFICATIONS AND STANDARD DETAILS UPON COMPLETION OF PAVING OR RELATED CONSTRUCTION.
4. FINAL ACCEPTANCE SHALL NOT BE ISSUED UNTIL RECORD DRAWINGS HAVE BEEN CERTIFIED BY THE ENGINEER OR SURVEYOR AND HAVE BEEN REVIEWED AND APPROVED BY THE TOWN ENGINEER. UPON APPROVAL, THE CONTRACTOR SHALL PROVIDE TO THE TOWN ONE DIGITAL PDF COPY AND ONE CAD FILE ON A USB DRIVE. A GIS POINT FILE THAT CONTAINS THE NORTHING, EASTING, AND ELEVATION OF VALVES, MANHOLES, ETC. SHALL ALSO BE SUBMITTED ON USB TO THE TOWN PRIOR TO FINAL ACCEPTANCE. "FINAL ACCEPTANCE" CONSTITUTES APPROVAL FROM THE TOWN THAT ALL DOCUMENTATION REQUIREMENTS HAVE BEEN MET AFTER CONSTRUCTION COMPLETION. FINAL ACCEPTANCE DOES NOT RELEASE THE CONTRACTOR FROM THEIR WARRANTY OBLIGATIONS.
5. ALL WORK AND MATERIALS WHICH DO NOT CONFORM TO CONTRACT DOCUMENTS ARE SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
6. THE CONTRACTOR SHALL PROVIDE SUFFICIENT PERSONNEL AND EQUIPMENT ON THE JOB AT ALL TIMES DURING CONSTRUCTION TO COMPLY WITH THE CONTRACT DOCUMENTS AND TO COMPLETE THE WORK.
7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL UNDERGROUND UTILITIES, TELEPHONE, FIBER OPTIC, AND ELECTRICAL CONDUITS AND STRUCTURES IN ADVANCE OF ANY CONSTRUCTION; AND WILL IMPLEMENT ALL REASONABLE PRECAUTIONS TO AVOID ANY DAMAGE TO SUCH. THE TOWN WILL NOT GUARANTEE ANY LOCATIONS AS SHOWN ON THESE PLANS OR THOSE OMITTED FROM SAME.
8. WATER-SEWER SEPARATION SHALL BE PURSUANT TO MAG STANDARD SPECIFICATION 610.5, MAG STANDARD DETAIL 404, AND AAC R18-5-502.

9. TRENCH BEDDING AND BACKFILL SHALL BE IN ACCORDANCE WITH THE TOWN STANDARD DETAIL.
10. ALL PIPES AND APPURTENANCES SHALL BE PROVIDED WITH 14-GAUGE, STRANDED WIRE, DIRECT BURY COPPER WITH GREEN COATING. TRACE WIRE SHALL BE SUBJECT TO A TRACEABILITY TEST. TEST/ACCESS BOXES SHALL BE PROVIDED AT NOT MORE THAN 1,000 FOOT SPACING.
11. PVC GRAVITY SEWER PIPES SHALL BE MINIMUM SDR 35 (UNLESS OTHERWISE REVIEWED AND APPROVED BY THE TOWN ENGINEER) AND INSTALLED ACCORDING TO ASTM STANDARD SPECIFICATION D2321 (LATEST VERSION).
12. ALL FORCE MAINS SHALL BE PE 4710 HIGH DENSITY POLYETHYLENE (HDPE) PIPE OR PROTECTO 401 EPOXY LINED DUCTILE IRON PIPE UNLESS OTHERWISE APPROVED BY THE TOWN ENGINEER.
13. FORCE MAIN LEAK TESTING SHALL BE PERFORMED UNDER TEST PRESSURE OF 50 PSI (MINIMUM) ABOVE THE DESIGN WORKING PRESSURE AND CONDUCTED PER MAG STANDARD SPECIFICATION 611 HYDROSTATIC TESTING PROCEDURES.
14. SEWER LINE LOW PRESSURE AIR TESTS SHALL BE DONE ON 100% OF ALL PIPES PURSUANT TO MAG STANDARD SPECIFICATION 611.
15. SEWER LINE DEFLECTION TESTS SHALL BE DONE ON 100% OF ALL PIPES PURSUANT TO MAG STANDARD SPECIFICATION 611.
16. SEWER MANHOLES EXFILTRATION TESTS SHALL BE DONE ON 100% OF ALL MANHOLES PER MAG STANDARD SPECIFICATION 611. VACUUM (NEGATIVE AIR PRESSURE) TESTING SHALL BE DONE IN ACCORDANCE WITH MAG STANDARD SPECIFICATION 742 IN LIEU OF EXFILTRATION TEST.
17. PRIOR TO FINAL ACCEPTANCE AS DEFINED IN NOTE 4, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE TOWN OF WICKENBURG PUBLIC WORKS DEPARTMENT WITH A USB OR DVD OF A VIDEO OF THE INTERIOR OF THE SEWER PIPE INSTALLED WITHIN THE TOWN OF WICKENBURG. THE VIDEO WILL BE PREVIEWED AND DEEMED ACCEPTABLE BY THE TOWN PRIOR TO FINAL ACCEPTANCE.
18. ALL MANHOLES GREATER THAN 12 FEET IN DEPTH FROM RIM TO THE LOWEST INVERT SHALL BE 5-FOOT DIAMETER WITH 30-INCH DIAMETER COVERS EXCEPT WHERE THE TOWN ENGINEER APPROVES DEEPER 4-FOOT MANHOLES. MANHOLES OF LESSER DEPTH CAN BE 4-FOOT DIAMETER WITH 24-INCH DIAMETER COVERS.
19. MANHOLE COVER SHALL BE DEETER FOUNDRY, INC. #1296-2801 FURNISHED WITH A T-GASKET.
20. ALL MANHOLES SHALL BE PRECAST CONCRETE MANHOLES. CAST-IN-PLACE MANHOLES REQUIRE SUBMITTAL TO, AND APPROVAL BY THE TOWN ENGINEER.

21. SANITARY SEWER SERVICES SHALL NOT BE CONNECTED TO MANHOLES.
22. THERE SHALL BE NO OTHER UTILITY SERVICES SUCH AS ELECTRICITY, COMMUNICATIONS, AND OTHER CABLES INSTALLED INSIDE MANHOLES.
23. DROP MANHOLE CONNECTIONS ARE NOT ALLOWED WITHOUT SUBMITTAL TO, AND APPROVAL BY THE TOWN ENGINEER.
24. SEWER LINE CONCRETE ENCASEMENTS SHALL BE PER MAG STANDARD DETAIL 404-3. REBAR SHALL BE INSPECTED BY THE TOWN INSPECTOR PRIOR TO CONCRETE PLACEMENT.
25. A PLUG SHALL BE INSTALLED AT THE POINT(S) OF CONNECTION TO EXISTING PIPE (OUTFALLS) AT THE START OF CONSTRUCTION. EACH RESPECTIVE PHASE SHALL BE PLUGGED AND REMAIN PLUGGED UNTIL ACCEPTED BY THE TOWN. NO FLOWS SHALL BE RELEASED INTO THE TOWN SANITARY SEWER SYSTEM UNTIL ALL TESTS HAVE PASSED AND BEEN APPROVED BY THE TOWN. FAILURE TO INSTALL OR MAINTAIN DOWNSTREAM SEWER PLUG(S) MAY RESULT IN DOWNSTREAM DAMAGE. ANY DAMAGES TO THE DOWNSTREAM SYSTEM IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
26. ALL FORCE MAINS SHALL HAVE DUAL CLEANOUTS AND VALVES AT LEAST ONCE EVERY 1,500 FEET PER THE TOWN STANDARD DETAIL FOR FORCE MAIN CLEANOUT.
27. THE CONTRACTOR SHALL VIDEO THE SEWER AS PART OF THE 11-MONTH WARRANTY WALK AND PROVIDE TO THE TOWN FOR REVIEW ON A USB OR DVD.
28. WHERE SEWER LATERALS ARE LOCATED, CONTRACTOR SHALL INSTALL NEW CONCRETE CURBS WITH AN "S" FOR SEWER SERVICES AT EACH LOT OR LOCATION.